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1653

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/664,326

DATE: 04/04/2002
 TIME: 15:16:31

Input Set : A:\24811693.app
 Output Set: N:\CRF3\04042002\I664326.raw

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3 <110> APPLICANT: HABERMANN, PAUL
4      BENDER, RUDOLF
6 <120> TITLE OF INVENTION: SIGNAL SEQUENCES FOR PREPARING LEU-HIRUDIN BY SECRETION
7      BY E. COLI INTO THE CULTURE MEDIUM
9 <130> FILE REFERENCE: 02481.1693
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/664,326
C--> 12 <141> CURRENT FILING DATE: 2000-09-18
14 <160> NUMBER OF SEQ ID NOS: 33
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
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23 <220> FEATURE:
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36 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
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62 <400> SEQUENCE: 4
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66 <210> SEQ ID NO: 5
67 <211> LENGTH: 56

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68 <212> TYPE: DNA
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71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
86 <400> SEQUENCE: 6
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88 a 61
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92 <211> LENGTH: 59
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
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106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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113 gca 63
116 <210> SEQ ID NO: 9
117 <211> LENGTH: 60
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119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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125 tttttgaat tcataaaaaa aatgaacctg gctgttgca tcgctaccct gatgggtacc 60
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136 <400> SEQUENCE: 10
137 ctgatcccgt tctttgcagc gttctgcctg ccggtttcg cgcttacgta tactgactgc 60
138 a 61

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156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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167 <212> TYPE: DNA
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171 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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177 <210> SEQ ID NO: 14
178 <211> LENGTH: 53
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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189 <210> SEQ ID NO: 15
190 <211> LENGTH: 57
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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203 <212> TYPE: DNA
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206 <220> FEATURE:
207 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
209 <400> SEQUENCE: 16
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211 tgca 64

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Input Set : A:\24811693.app
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224 atggc 65
227 <210> SEQ ID NO: 18
228 <211> LENGTH: 55
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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236 tggtttcagc ttttagtaaggc ggggttgcatt tggtctttac gtataactgac tgcac 55
239 <210> SEQ ID NO: 19
240 <211> LENGTH: 60
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
247 <400> SEQUENCE: 19
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252 <211> LENGTH: 60
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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263 <210> SEQ ID NO: 21
264 <211> LENGTH: 57
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266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
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272 tttttgaat tcatagtcatt tcatacaccgg gtatttaaac tgtcggcgct gagtctc 57
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276 <211> LENGTH: 227
277 <212> TYPE: DNA
278 <213> ORGANISM: Unknown Organism
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Unknown Organism: Hirudin-encoding
282 DNA sequence
284 <220> FEATURE:

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285 <221> NAME/KEY: CDS
 286 <222> LOCATION: (1)..(195)
 288 <400> SEQUENCE: 22
 289 ctt acg tat act gac tgc act gaa tct ggt cag aac ctg tgc ctg tgc 48
 290 Leu Thr Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu Cys
 291 1 5 10 15
 293 gaa gga tct aac gtt tgc ggc cag ggt aac aaa tgc atc ctt gga tcc 96
 294 Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys Cys Ile Leu Gly Ser
 295 20 25 30
 297 gac ggt gaa aag aac cag tgc gtt act ggc gaa ggt acc ccg aaa ccg 144
 298 Asp Gly Glu Lys Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys Pro
 299 35 40 45
 301 cag tct cat aac gac ggc gac ttc gaa gag atc cct gag gaa tac ctt 192
 302 Gln Ser His Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu
 303 50 55 60
 305 cag taatagagct cgtcgacctg cagcccaagc tt 227
 306 Gln
 307 65
 310 <210> SEQ ID NO: 23
 311 <211> LENGTH: 65
 312 <212> TYPE: PRT
 313 <213> ORGANISM: Unknown Organism
 315 <220> FEATURE:
 316 <223> OTHER INFORMATION: Description of Unknown Organism: Hirudin-encoded
 317 amino acid sequence
 319 <400> SEQUENCE: 23
 320 Leu Thr Tyr Thr Asp Cys Thr Glu Ser Gly Gln Asn Leu Cys Leu Cys
 321 1 5 10 15
 323 Glu Gly Ser Asn Val Cys Gly Gln Gly Asn Lys Cys Ile Leu Gly Ser
 324 20 25 30
 326 Asp Gly Glu Lys Asn Gln Cys Val Thr Gly Glu Gly Thr Pro Lys Pro
 327 35 40 45
 329 Gln Ser His Asn Asp Gly Asp Phe Glu Glu Ile Pro Glu Glu Tyr Leu
 330 50 55 60
 332 Gln
 333 65
 337 <210> SEQ ID NO: 24
 338 <211> LENGTH: 30
 339 <212> TYPE: PRT
 340 <213> ORGANISM: Unknown Organism
 342 <220> FEATURE:
 343 <223> OTHER INFORMATION: Description of Unknown Organism: Control:
 344 cgtase-Ala-hirudin
 346 <400> SEQUENCE: 24
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 350 Ile Ala Leu Asn Thr Phe Phe Cys Ser Met Gln Thr Ile Ala
 351 20 25 30
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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date